



## PRODUCT DATA SHEET

# Sika Boom<sup>®</sup>-121 Insulation

ONE COMPONENT, MULTIPURPOSE, STRAW APPLIED POLYURETHANE FOAM

### PRODUCT DESCRIPTION

Sika Boom<sup>®</sup>-121 Insulation is a one-component, polyurethane spray foam that provides heat and sound insulation

### WHERE TO USE

- Rim joist sealer.
- Roofs, attics, basements, interior walls, interfloor overlapping.
- Air sealing and insulating.
- Elimination of thermal bridges.

### CHARACTERISTICS / ADVANTAGES

- R value of 5,66 (per inch).
- Excellent thermal insulation value (0.025 W/(m.K).
- Excellent adhesion to many building materials.
- May be applied at temperatures between +5 °C and 30 °C.
- Yield up to 3 m<sup>2</sup> with 1.5 cm thickness for one layer if applied from a distance of ~40 cm with normal application speed.
- Paintable.
- Does not contain any propellant gases.

### PRODUCT INFORMATION

<b>Packaging</b>	850 mL (930 g) can / 12 cans per case	
<b>Shelf Life</b>	12 months from the date of production, if it is stored properly in undamaged, original, sealed packaging and if storage conditions are met.	
<b>Storage Conditions</b>	Product must be stored in an upright position, in dry conditions, protected from direct sunlight and at temperatures between 5 °C and 25 °C.	
<b>Colour</b>	Blue	
<b>Density</b>	15±1 kg/m <sup>3</sup>	ASTM D1622
<b>Compressive Strength</b>	0,03 MPa	DIN 53421
<b>Thermal Conductivity</b>	0,025 W/m.K (at 20°C)	DIN 52612
<b>Service Temperature</b>	-40 to 80 °C	
<b>Resistance to UV Exposure</b>	<ul style="list-style-type: none"> <li>▪ Cured foam will discolor if exposed to ultraviolet light.</li> <li>▪ Paint or coat the cured foam for best results in outdoor applications</li> </ul>	
<b>Resistance to Fire</b>	B3 class of cured foam	DIN 4102-1
<b>Yield</b>	3 m <sup>2</sup> for 1,5 cm thickness	

## Layer Thickness

- Can be applied at any desired thickness as long as it is applied layer by layer. The thicker, the higher insulation value.
- For an effective insulation value, the recommended application thickness is 5 cm (R 5,66) and should be reached to this thickness with minimum 3 layers. It is not possible to get the ideal insulation value with 1 or 2 layers.

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## Dew Point

Elimination of the dew point

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## Curing Time

Full cure: 24 hours

Tack-Free time: 4 min

ASTM C1620

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## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

## WHERE TO USE

- Wear suitable protective clothing and gloves.
- Contains Diphenylmethane-4, 4'-Diisocyanate.
- Harmful by inhalation, irritating to eyes, respiratory system and skin.
- Do not breathe spray/vapor.
- Use only in well-ventilated areas.
- Storage above 25 °C and below 5 °C shortens shelf life.
- Should be stored and transported in vertical position.
- Should be kept in room temperature for at least 12 hours before the application.
- Lower temperatures decrease yield and curing time.
- Keep away from sources of ignition.

## ENVIRONMENT, HEALTH & SAFETY

### SUBSTRATE PREPARATION

The substrate must be clean, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Paint, cement laitance and other poorly adhering contaminants must be removed. Sika Boom®-121 Insulation adheres without primers and/or activators.

### MIXING

Shake Sika Boom®-121 Insulation can well for about 60 seconds before use. Turn the Sika Boom®-121 Insulation can upside down and screw the straw adapter firmly into place without pressing the valve.

## APPLICATION

Regulate the foam flow by applying more or less pressure on the valve/adaptor. Sika Boom®-121 Insulation can only be used in the upside down position, failure to invert the can will prevent the foam from dispensing properly. Take care to allow each layer to cure and expand sufficiently before applying additional layers.

- Spray the foam 30-45 cm distance from the wall for vertical applications.
- Spray the foam 15-20 cm distance from the ceiling for horizontal applications

## CLEAN UP

Clean all tools and application equipment immediately with Sika Boom® Cleaner. Uncured material may be removed from substrates and tools with Sika® Hand Cleaner. Once cured, residual material can only be removed mechanically. Refer to Sika Boom® Cleaner product data sheet for further information.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted

### Product Data Sheet

Sika Boom®-121 Insulation

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subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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